. CC0 2022 Inkscape™ LibreCAD© LibreCalc© (PARI)

1=√1

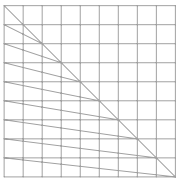
√(c×c−b×b) = a √((1+n^2)−n^2)

√(√2×√2 −1×1) = (√2×√2 −√1×√1) = 1 = √4 =√(2 −1) =√((1+1^2)−1^2) = 1.
√(√5×√5 −2×2) = (√5×√5 −√4×√4) = 1 = √4 =√(5 −4) =√((1+2^2)−2^2) = 1.
√(√10×√10−3×3) = (√10×√10−√9×√9) = 1 = √1 =√(10 −9) =√((1+3^2)−3^2) = 1.
√(√17×√17−4×4) = (√17×√17−√16×√16) = 1 = √1 =√(17−16) =√((1+4^2)−4^2) = 1.
√(√26×√26−5×5) = (√29×√29−√25×√25) = 1 = √1 =√(26−25) =√((1+5^2)−5^2) = 1.
√(√37×√37−6×6) = (√37×√37−√36×√36) = 1 = √1 =√(37−36) =√((1+6^2)−6^2) = 1.
√(√50×√50−7×7) = (√50×√50−√49×√49) = 1 = √1 =√(50−49) =√((1+7^2)−7^2) = 1.
√(√65×√65−8×8) = (√65×√65−√64×√64) = 1 = √1 =√(65−64) =√((1+8^2)−8^2) = 1.
√(√82×√82−9×9) = (√82×√82−√81×√81) = 1 = √1 =√(82−81) =√((1+9^2)−9^2) = 1.

1=√1

√(c×c−a×a) = b √(n^2)

√(√2×√2 −√1×√1) = 1 = √1 = √(5 −1) = √(1^2) = 1.
√(√5×√5 −√1×√1) = 2 = √4 = √(8 −1) = √(2^2) = 2.
√(√10×√10−√1×√1) = 3 = √9 = √(10−1) = √(3^2) = 3.
√(√17×√17−√1×√1) = 4 = √16 = √(17−1) = √(4^2) = 4.
√(√26×√26−√1×√1) = 5 = √25 = √(26−1) = √(5^2) = 5.
√(√37×√37−√1×√1) = 6 = √36 = √(37−1) = √(6^2) = 6.
√(√50×√50−√1×√1) = 7 = √49 = √(50−1) = √(7^2) = 7.
√(√65×√65−√1×√1) = 8 = √64 = √(65−1) = √(8^2) = 8.
√(√82×√82−√1×√1) = 9 = √81 = √(82−1) = √(9^2) = 9.



1=√1

√(a×a+b×b) = c √(n^2+1)

√(1×1+1×1) = (√1×√1 +√1×√1) = √2 = √(1+ 1) = √(1^2+1) ≈ 1.414213...
√(1×1+2×2) = (√1×√1 +√4×√4) = √5 = √(1+ 4) = √(2^2+1) ≈ 2.236067...
√(1×1+3×3) = (√1×√1 +√9×√9) = √10 = √(1+ 9) = √(3^2+1) ≈ 3.162277...
√(1×1+4×4) = (√1×√1+√16×√16) = √17 = √(1+16) = √(4^2+1) ≈ 4.123105...
√(1×1+5×5) = (√1×√1+√25×√25) = √26 = √(1+25) = √(5^2+1) ≈ 5.099019...
√(1×1+6×6) = (√1×√1+√36×√36) = √37 = √(1+36) = √(6^2+1) ≈ 6.082762...
√(1×1+7×7) = (√1×√1+√49×√49) = √50 = √(1+49) = √(7^2+1) ≈ 7.071067...
√(1×1+8×8) = (√1×√1+√64×√64) = √65 = √(1+64) = √(8^2+1) ≈ 8.062257...
√(1×1+9×9) = (√1×√1+√81×√81) = √82 = √(1+81) = √(9^2+1) ≈ 9.055385...

2=√4

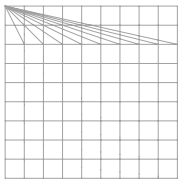
√(c×c−b×b) = a √((4+n^2)−n^2)

√(√5×√5 −1×1) = (√5×√5 −√1×√1) = 2 = √4 =√(5 −1) =√((4+1^2)−1^2) = 2.
√(√8×√8 −2×2) = (√8×√8 −√4×√4) = 2 = √4 =√(8 −4) =√((4+2^2)−2^2) = 2.
√(√13×√13−3×3) = (√13×√13−√9×√9) = 2 = √4 =√(13 −9) =√((4+3^2)−3^2) = 2.
√(√20×√20−4×4) = (√20×√20−√16×√16) = 2 = √4 =√(20−16) =√((4+4^2)−4^2) = 2.
√(√29×√29−5×5) = (√29×√29−√25×√25) = 2 = √4 =√(29−25) =√((4+5^2)−5^2) = 2.
√(√40×√40−6×6) = (√40×√40−√36×√36) = 2 = √4 =√(40−36) =√((4+6^2)−6^2) = 2.
√(√53×√53−7×7) = (√53×√53−√49×√49) = 2 = √4 =√(53−49) =√((4+7^2)−7^2) = 2.
√(√68×√68−8×8) = (√68×√68−√64×√64) = 2 = √4 =√(68−64) =√((4+8^2)−8^2) = 2.
√(√85×√85−9×9) = (√85×√85−√81×√81) = 2 = √4 =√(85−81) =√((4+9^2)−9^2) = 2.

2=√4

√(c×c−a×a) = b √(n^2)

√(√5×√5 −√4×√4) = 1 = √1 = √(5 −4) = √(1^2) = 1.
√(√8×√8 −√4×√4) = 2 = √4 = √(8 −4) = √(2^2) = 2.
√(√13×√13−√4×√4) = 3 = √9 = √(13−4) = √(3^2) = 3.
√(√20×√20−√4×√4) = 4 = √16 = √(20−4) = √(4^2) = 4.
√(√29×√29−√4×√4) = 5 = √25 = √(29−4) = √(5^2) = 5.
√(√40×√40−√4×√4) = 6 = √36 = √(40−4) = √(6^2) = 6.
√(√53×√53−√4×√4) = 7 = √49 = √(53−4) = √(7^2) = 7.
√(√68×√68−√4×√4) = 8 = √64 = √(68−4) = √(8^2) = 8.
√(√85×√85−√4×√4) = 9 = √81 = √(85−4) = √(9^2) = 9.



2=√4

√(a×a+b×b) = c √(n^2+4)

√(1×1+2×2) = (√1×√1 +√4×√4) = √5 = √(1+ 4) = √(1^2+4) ≈ 2.236067...
√(2×2+2×2) = (√4×√4 +√4×√4) = √8 = √(4+ 4) = √(2^2+4) ≈ 2.828427...
√(2×2+3×3) = (√4×√4 +√9×√9) = √13 = √(4+ 9) = √(3^2+4) ≈ 3.605551...
√(2×2+4×4) = (√4×√4+√16×√16) = √20 = √(4+16) = √(4^2+4) ≈ 4.472135...
√(2×2+5×5) = (√4×√4+√25×√25) = √29 = √(4+25) = √(5^2+4) ≈ 5.385164...
√(2×2+6×6) = (√4×√4+√36×√36) = √40 = √(4+36) = √(6^2+4) ≈ 6.324555...
√(2×2+7×7) = (√4×√4+√49×√49) = √53 = √(4+49) = √(7^2+4) ≈ 7.280109...
√(2×2+8×8) = (√4×√4+√64×√64) = √68 = √(4+64) = √(8^2+4) ≈ 8.246211...
√(2×2+9×9) = (√4×√4+√81×√81) = √85 = √(4+81) = √(9^2+4) ≈ 9.219544...

3=√9

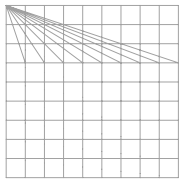
√(c×c−b×b) = a √((9+n^2)−n^2)

√(√10×√10−1×1) = (√10×√10−√1×√1) = 3 = √9 =√(10 −1) =√((9+1^2)−1^2) = 3.
√(√13×√13−2×2) = (√13×√13−√4×√4) = 3 = √9 =√(13 −4) =√((9+2^2)−2^2) = 3.
√(√18×√18−3×3) = (√18×√18−√9×√9) = 3 = √9 =√(18 −9) =√((9+3^2)−3^2) = 3.
√(√25×√25−4×4) = (√25×√25−√16×√16) = 3 = √9 =√(25−16) =√((9+4^2)−4^2) = 3.
√(√34×√34−5×5) = (√34×√34−√25×√25) = 3 = √9 =√(34−25) =√((9+5^2)−5^2) = 3.
√(√45×√45−6×6) = (√45×√45−√36×√36) = 3 = √9 =√(45−36) =√((9+6^2)−6^2) = 3.
√(√58×√58−7×7) = (√58×√58−√49×√49) = 3 = √9 =√(58−49) =√((9+7^2)−7^2) = 3.
√(√73×√73−8×8) = (√73×√73−√64×√64) = 3 = √9 =√(73−64) =√((9+8^2)−8^2) = 3.
√(√90×√90−9×9) = (√90×√90−√81×√81) = 3 = √9 =√(90−81) =√((9+9^2)−9^2) = 3.

3=√9

√(c×c−a×a) = b √(n^2)

√(√10×√10−√9×√9) = 1 = √1 = √(10−9) = √(1^2) = 1.
√(√13×√13−√9×√9) = 2 = √4 = √(13−9) = √(2^2) = 2.
√(√18×√18−√9×√9) = 3 = √9 = √(18−9) = √(3^2) = 3.
√(√25×√25−√9×√9) = 4 = √16 = √(25−9) = √(4^2) = 4.
√(√34×√34−√9×√9) = 5 = √25 = √(34−9) = √(5^2) = 5.
√(√45×√45−√9×√9) = 6 = √36 = √(45−9) = √(6^2) = 6.
√(√58×√58−√9×√9) = 7 = √49 = √(58−9) = √(7^2) = 7.
√(√73×√73−√9×√9) = 8 = √64 = √(73−9) = √(8^2) = 8.
√(√90×√90−√9×√9) = 9 = √81 = √(90−9) = √(9^2) = 9.



3=√9

√(a×a+b×b) = c √(n^2+9)

√(1×1+3×3) = (√1×√1 +√9×√9) = √10 = √(1+ 9) = √(1^2+9) ≈ 3.162277...
√(2×2+3×3) = (√4×√4 +√9×√9) = √13 = √(4+ 9) = √(2^2+9) ≈ 3.605551...
√(3×3+3×3) = (√9×√9 +√9×√9) = √18 = √(9+ 9) = √(3^2+9) ≈ 4.242640...
√(3×3+4×4) = (√9×√9+√16×√16) = √25 = √(9+16) = √(4^2+9) ≈ 5.
√(3×3+5×5) = (√9×√9+√25×√25) = √34 = √(9+25) = √(5^2+9) ≈ 5.830951...
√(3×3+6×6) = (√9×√9+√36×√36) = √45 = √(9+36) = √(6^2+9) ≈ 6.708203...
√(3×3+7×7) = (√9×√9+√49×√49) = √58 = √(9+49) = √(7^2+9) ≈ 7.615773...
√(3×3+8×8) = (√9×√9+√64×√64) = √73 = √(9+64) = √(8^2+9) ≈ 8.544003...
√(3×3+9×9) = (√9×√9+√81×√81) = √90 = √(9+81) = √(9^2+9) ≈ 9.486832...

4=√16

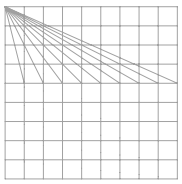
√(c×c−b×b) = a √((16+n^2)−n^2)

√(√17×√17−1×1) = (√17×√17−√1×√1) = 4 = √16 =√(17 −1) =√((16+1^2)−1^2) = 4.
√(√20×√20−2×2) = (√20×√20−√4×√4) = 4 = √16 =√(20 −4) =√((16+2^2)−2^2) = 4.
√(√25×√25−3×3) = (√25×√25−√9×√9) = 4 = √16 =√(25 −9) =√((16+3^2)−3^2) = 4.
√(√32×√32−4×4) = (√32×√32−√16×√16) = 4 = √16 =√(32−16) =√((16+4^2)−4^2) = 4.
√(√41×√41−5×5) = (√41×√41−√25×√25) = 4 = √16 =√(41−25) =√((16+5^2)−5^2) = 4.
√(√52×√52−6×6) = (√52×√52−√36×√36) = 4 = √16 =√(52−36) =√((16+6^2)−6^2) = 4.
√(√65×√65−7×7) = (√65×√65−√49×√49) = 4 = √16 =√(65−49) =√((16+7^2)−7^2) = 4.
√(√80×√80−8×8) = (√80×√80−√64×√64) = 4 = √16 =√(80−64) =√((16+8^2)−8^2) = 4.
√(√97×√97−9×9) = (√97×√97−√81×√81) = 4 = √16 =√(97−81) =√((16+9^2)−9^2) = 4.

4=√16

√(c×c−a×a) = b √(n^2)

√(√17×√17−√16×√16) = 1 = √1 = √(17−16) = √(1^2) = 1.
√(√20×√20−√16×√16) = 2 = √4 = √(20−16) = √(2^2) = 2.
√(√25×√25−√16×√16) = 3 = √9 = √(25−16) = √(3^2) = 3.
√(√32×√32−√16×√16) = 4 = √16 = √(32−16) = √(4^2) = 4.
√(√41×√41−√16×√16) = 5 = √25 = √(41−16) = √(5^2) = 5.
√(√52×√52−√16×√16) = 6 = √36 = √(52−16) = √(6^2) = 6.
√(√65×√65−√16×√16) = 7 = √49 = √(65−16) = √(7^2) = 7.
√(√80×√80−√16×√16) = 8 = √64 = √(80−16) = √(8^2) = 8.
√(√97×√97−√16×√16) = 9 = √81 = √(97−16) = √(9^2) = 9.



4=√16

√(a×a+b×b) = c √(n^2+16)

√(1×1+4×4) = (√1×√1 +√16×√16) = √17 = √(1+ 16) = √(1^2+16) ≈ 4.123105...
√(2×2+4×4) = (√4×√4 +√16×√16) = √20 = √(4+ 16) = √(2^2+16) ≈ 4.472135...
√(3×3+4×4) = (√9×√9 +√16×√16) = √25 = √(9+ 16) = √(3^2+16) ≈ 5.
√(4×4+4×4) = (√16×√16+√16×√16) = √32 = √(16+16) = √(4^2+16) ≈ 5.656854...
√(4×4+5×5) = (√16×√16+√25×√25) = √41 = √(16+25) = √(5^2+16) ≈ 6.403124...
√(4×4+6×6) = (√16×√16+√36×√36) = √52 = √(16+36) = √(6^2+16) ≈ 7.211102...
√(4×4+7×7) = (√16×√16+√49×√49) = √65 = √(16+49) = √(7^2+16) ≈ 8.062257...
√(4×4+8×8) = (√16×√16+√64×√64) = √80 = √(16+64) = √(8^2+16) ≈ 8.944271...
√(4×4+9×9) = (√16×√16+√81×√81) = √97 = √(16+81) = √(9^2+16) ≈ 9.848857...

5=√25

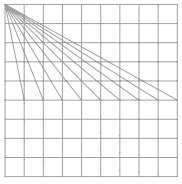
√(c×c−b×b) = a √((25+n^2)−n^2)

√(√26×√26 −1×1) = (√26×√26 −√1×√1) = 5 = √25 =√(26 −1) =√((25+1^2)−1^2) = 5.
√(√29×√29 −2×2) = (√29×√29 −√4×√4) = 5 = √25 =√(29 −4) =√((25+2^2)−2^2) = 5.
√(√34×√34 −3×3) = (√34×√34 −√9×√9) = 5 = √25 =√(34 −9) =√((25+3^2)−3^2) = 5.
√(√41×√41 −4×4) =√(√41×√41 −√16×√16) = 5 = √25 =√(41 −16) =√((25+4^2)−4^2) = 5.
√(√50×√50 −5×5) = (√50×√50 −√25×√25) = 5 = √25 =√(50 −25) =√((25+5^2)−5^2) = 5.
√(√61×√61 −6×6) = (√61×√61 −√36×√36) = 5 = √25 =√(61 −36) =√((25+6^2)−6^2) = 5.
√(√74×√74 −7×7) = (√74×√74 −√49×√49) = 5 = √25 =√(74 −49) =√((25+7^2)−7^2) = 5.
√(√89×√89 −8×8) = (√89×√89 −√64×√64) = 5 = √25 =√(89 −64) =√((25+8^2)−8^2) = 5.
√(√106×√106−9×9) = (√106×√106−√81×√81) = 5 = √25 =√(106−81) =√((25+9^2)−9^2) = 5.

5=√25

√(c×c−a×a) = b √(n^2)

√(√26×√26 −√25×√25) = 1 = √1 = √(26 −25) = √(1^2) = 1.
√(√29×√29 −√25×√25) = 2 = √4 = √(29 −25) = √(2^2) = 2.
√(√34×√34 −√25×√25) = 3 = √9 = √(34 −25) = √(3^2) = 3.
√(√41×√41 −√25×√25) = 4 = √16 = √(41 −25) = √(4^2) = 4.
√(√50×√50 −√25×√25) = 5 = √25 = √(50 −25) = √(5^2) = 5.
√(√61×√61 −√25×√25) = 6 = √36 = √(61 −25) = √(6^2) = 6.
√(√74×√74 −√25×√25) = 7 = √49 = √(74 −25) = √(7^2) = 7.
√(√89×√89 −√25×√25) = 8 = √64 = √(89 −25) = √(8^2) = 8.
√(√106×√106−√25×√25) = 9 = √81 = √(106−25) = √(9^2) = 9.



5=√25

√(a×a+b×b) = c √(n^2+25)

√(1×1+5×5) = (√1×√1 +√25×√25) = √26 = √(1+ 25) = √(1^2+25) ≈ 5.099019...
√(2×2+5×5) = (√4×√4 +√25×√25) = √29 = √(4+ 25) = √(2^2+25) ≈ 5.385164...
√(3×3+5×5) = (√9×√9 +√25×√25) = √34 = √(9+ 25) = √(3^2+25) ≈ 5.830951...
√(4×4+5×5) = (√16×√16+√25×√25) = √41 = √(16+25) = √(4^2+25) ≈ 6.403124...
√(5×5+5×5) = (√25×√25+√25×√25) = √50 = √(25+25) = √(5^2+25) ≈ 7.071067...
√(5×5+6×6) = (√25×√25+√36×√36) = √61 = √(25+36) = √(6^2+25) ≈ 7.810249...
√(5×5+7×7) = (√25×√25+√49×√49) = √74 = √(25+49) = √(7^2+25) ≈ 8.602325...
√(5×5+8×8) = (√25×√25+√64×√64) = √89 = √(25+64) = √(8^2+25) ≈ 9.433981...
√(5×5+9×9) = (√25×√25+√81×√81) = √106 = √(25+81) = √(9^2+25) ≈ 10.29563...

6=√36

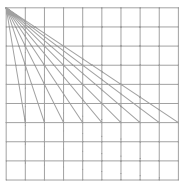
√(c×c−b×b) = a √((36+n^2)−n^2)

√(√37×√37 −1×1) = (√37×√37 −√1×√1) = 6 = √36 =√(37 −1) =√((36+1^2)−1^2) = 6.
√(√40×√40 −2×2) = (√40×√40 −√4×√4) = 6 = √36 =√(40 −4) =√((36+2^2)−2^2) = 6.
√(√45×√45 −3×3) = (√45×√45 −√9×√9) = 6 = √36 =√(45 −9) =√((36+3^2)−3^2) = 6.
√(√52×√52 −4×4) =√(√52×√52 −√16×√16) = 6 = √36 =√(52 −16) =√((36+4^2)−4^2) = 6.
√(√65×√65 −5×5) = (√65×√65 −√25×√25) = 6 = √36 =√(65 −25) =√((36+5^2)−5^2) = 6.
√(√72×√72 −6×6) = (√72×√72 −√36×√36) = 6 = √36 =√(72 −36) =√((36+6^2)−6^2) = 6.
√(√85×√85 −7×7) = (√85×√85 −√49×√49) = 6 = √36 =√(85 −49) =√((36+7^2)−7^2) = 6.
√(√100×√100−8×8) = (√100×√100−√64×√64) = 6 = √36 =√(100−64) =√((36+8^2)−8^2) = 6.
√(√117×√117−9×9) = (√117×√117−√81×√81) = 6 = √36 =√(117−81) =√((36+9^2)−9^2) = 6.

6=√36

√(c×c−a×a) = b √(n^2)

√(√37×√37 −√36×√36) = 1 = √1 = √(37 −36) = √(1^2) = 1.
√(√40×√40 −√36×√36) = 2 = √4 = √(40 −36) = √(2^2) = 2.
√(√45×√45 −√36×√36) = 3 = √9 = √(45 −36) = √(3^2) = 3.
√(√52×√52 −√36×√36) = 4 = √16 = √(52 −36) = √(4^2) = 4.
√(√65×√65 −√36×√36) = 5 = √25 = √(65 −36) = √(5^2) = 5.
√(√72×√72 −√36×√36) = 6 = √36 = √(72 −36) = √(6^2) = 6.
√(√85×√85 −√36×√36) = 7 = √49 = √(85 −36) = √(7^2) = 7.
√(√100×√100−√36×√36) = 8 = √64 = √(100−36) = √(8^2) = 8.
√(√117×√117−√36×√36) = 9 = √81 = √(117−36) = √(9^2) = 9.



6=√36

√(a×a+b×b) = c √(n^2+36)

√(1×1+6×6) = (√1×√1 +√36×√36) = √37 = √(1 +36) = √(1^2+36) ≈ 6.082762...
√(2×2+6×6) = (√4×√4 +√36×√36) = √40 = √(4 +36) = √(2^2+36) ≈ 6.324555...
√(3×3+6×6) = (√9×√9 +√36×√36) = √45 = √(9 +36) = √(3^2+36) ≈ 6.708203...
√(4×4+6×6) = (√16×√16+√36×√36) = √52 = √(16+36) = √(4^2+36) ≈ 7.211102...
√(5×5+6×6) = (√25×√25+√36×√36) = √61 = √(25+36) = √(5^2+36) ≈ 7.810249...
√(6×6+6×6) = (√36×√36+√36×√49) = √72 = √(36+36) = √(6^2+36) ≈ 8.485281...
√(6×6+7×7) = (√36×√36+√49×√49) = √85 = √(36+49) = √(7^2+36) ≈ 9.219544...
√(6×6+8×8) = (√36×√36+√64×√64) = √100 = √(36+64) = √(8^2+36) ≈ 10
√(6×6+9×9) = (√36×√36+√81×√81) = √117 = √(36+81) = √(9^2+36) ≈ 10.81665...

7=√49

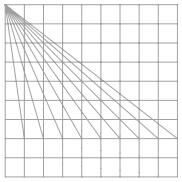
√(c×c−b×b) = a √((49+n^2)−n^2)

√(√50×√50 −1×1) = (√50×√50 −√1×√1) = 7 = √49 =√(50 −1) =√((49+1^2)−1^2) = 7.
√(√53×√53 −2×2) = (√53×√53 −√4×√4) = 7 = √49 =√(53 −4) =√((49+2^2)−2^2) = 7.
√(√58×√58 −3×3) = (√58×√58 −√9×√9) = 7 = √49 =√(58 −9) =√((49+3^2)−3^2) = 7.
√(√65×√65 −4×4) = (√65×√65 −√16×√16) = 7 = √49 =√(65 −16) =√((49+4^2)−4^2) = 7.
√(√74×√74 −5×5) = (√74×√74 −√25×√25) = 7 = √49 =√(74 −25) =√((49+5^2)−5^2) = 7.
√(√85×√85 −6×6) = (√98×√98 −√36×√36) = 7 = √49 =√(98 −36) =√((49+6^2)−6^2) = 7.
√(√98×√98 −7×7) = (√130×√130−√49×√49) = 7 = √49 =√(98 −49) =√((49+7^2)−7^2) = 7.
√(√113×√113−8×8) = (√145×√145−√64×√64) = 7 = √49 =√(113−64) =√((49+8^2)−8^2) = 7.
√(√130×√130−9×9) = (√162×√162−√81×√81) = 7 = √49 =√(162−81) =√((49+9^2)−9^2) = 7.

7=√49

√(c×c−a×a) = b √(n^2)

√(√50×√50 −√49×√49) = 1 = √1 = √(50 −49) = √(1^2) = 1.
√(√53×√53 −√49×√49) = 2 = √4 = √(53 −49) = √(2^2) = 2.
√(√58×√58 −√49×√49) = 3 = √9 = √(58 −49) = √(3^2) = 3.
√(√65×√65 −√49×√49) = 4 = √16 = √(65 −49) = √(4^2) = 4.
√(√74×√74 −√49×√49) = 5 = √25 = √(74 −49) = √(5^2) = 5.
√(√85×√85 −√49×√49) = 6 = √36 = √(85 −49) = √(6^2) = 6.
√(√98×√98 −√49×√49) = 7 = √49 = √(98 −49) = √(7^2) = 7.
√(√113×√113−√49×√49) = 8 = √64 = √(113−49) = √(8^2) = 8.
√(√130×√130−√49×√49) = 9 = √81 = √(130−49) = √(9^2) = 9.



7=√49

√(a×a+b×b) = c √(n^2+49)

√(1×1+7×7) = (√1×√1 +√49×√49) = √50 = √(1 +49) = √(1^2+49) ≈ 7.071067...
√(2×2+7×7) = (√4×√4 +√49×√49) = √53 = √(4 +49) = √(2^2+49) ≈ 2.828427...
√(3×3+7×7) = (√9×√9 +√49×√49) = √58 = √(9 +49) = √(3^2+49) ≈ 3.605551...
√(4×4+7×7) = (√16×√16+√49×√49) = √65 = √(16+49) = √(4^2+49) ≈ 9.848857...
√(5×5+7×7) = (√25×√25+√49×√49) = √74 = √(25+49) = √(5^2+49) ≈ 10.29563...
√(6×6+7×7) = (√36×√36+√49×√49) = √85 = √(36+49) = √(6^2+49) ≈ 10.81665...
√(7×7+7×7) = (√49×√49+√49×√49) = √98 = √(49+49) = √(7^2+49) ≈ 11.40175...
√(7×7+8×8) = (√49×√49+√64×√64) = √113 = √(49+64) = √(8^2+49) ≈ 12.04159...
√(7×7+9×9) = (√49×√49+√81×√81) = √130 = √(49+81) = √(9^2+49) ≈ 12.72792...

8=√64

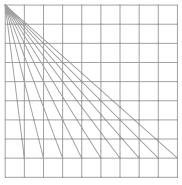
√(c×c−b×b) = a √((64+n^2)−n^2)

√(√65×√65 −1×1) = (√65×√65 −√1×√1) = 8 = √64 =√(65 −1) =√((64+1^2)−1^2) = 8.
√(√68×√68 −2×2) = (√68×√68 −√4×√4) = 8 = √64 =√(68 −4) =√((64+2^2)−2^2) = 8.
√(√73×√73 −3×3) = (√73×√73 −√9×√9) = 8 = √64 =√(73 −9) =√((64+3^2)−3^2) = 8.
√(√80×√80 −4×4) =√(√80×√80 −√16×√16) = 8 = √64 =√(80 −16) =√((64+4^2)−4^2) = 8.
√(√89×√89 −5×5) = (√89×√89 −√25×√25) = 8 = √64 =√(89 −25) =√((64+5^2)−5^2) = 8.
√(√100×√100−6×6) = (√100×√100−√36×√36) = 8 = √64 =√(100−36) =√((64+6^2)−6^2) = 8.
√(√113×√113−7×7) = (√113×√113−√49×√49) = 8 = √64 =√(113−49) =√((64+7^2)−7^2) = 8.
√(√128×√128−8×8) = (√128×√128−√64×√64) = 8 = √64 =√(128−64) =√((64+8^2)−8^2) = 8.
√(√145×√145−9×9) = (√145×√145−√81×√81) = 8 = √64 =√(145−81) =√((64+9^2)−9^2) = 8.

8=√64

√(c×c−a×a) = b √(n^2)

√(√65×√65 −√64×√64) = 1 = √1 = √(65 −64) = √(1^2) = 1.
√(√68×√68 −√64×√64) = 2 = √4 = √(68 −64) = √(2^2) = 2.
√(√73×√73 −√64×√64) = 3 = √9 = √(73 −64) = √(3^2) = 3.
√(√80×√80 −√64×√64) = 4 = √16 = √(80 −64) = √(4^2) = 4.
√(√89×√89 −√64×√64) = 5 = √25 = √(89 −64) = √(5^2) = 5.
√(√100×√100−√64×√64) = 6 = √36 = √(100−64) = √(6^2) = 6.
√(√113×√113−√64×√64) = 7 = √49 = √(113−64) = √(7^2) = 7.
√(√128×√128−√64×√64) = 8 = √64 = √(128−64) = √(8^2) = 8.
√(√145×√145−√64×√64) = 9 = √81 = √(145−64) = √(9^2) = 9.



8=√64

√(a×a+b×b) = c √(n^2+64)

√(1×1+8×8) = (√1×√1 +√64×√64) = √65 = √(1+ 64) = √(1^2+64) ≈ 8.062257...
√(2×2+8×8) = (√4×√4 +√64×√64) = √68 = √(4+ 64) = √(2^2+64) ≈ 8.246211...
√(3×3+8×8) = (√9×√9 +√64×√64) = √73 = √(9+ 64) = √(3^2+64) ≈ 8.544003...
√(4×4+8×8) = (√16×√16+√64×√64) = √80 = √(16+64) = √(4^2+64) ≈ 8.944271...
√(5×5+8×8) = (√25×√25+√64×√64) = √89 = √(25+64) = √(5^2+64) ≈ 9.433981...
√(6×6+8×8) = (√36×√36+√64×√64) = √100 = √(36+64) = √(6^2+64) ≈ 10.
√(7×7+8×8) = (√49×√49+√64×√64) = √113 = √(49+64) = √(7^2+64) ≈ 10.63014...
√(8×8+8×8) = (√64×√64+√64×√64) = √128 = √(64+64) = √(8^2+64) ≈ 11.31370...
√(8×8+9×9) = (√64×√64+√81×√81) = √145 = √(64+81) = √(9^2+64) ≈ 12.04159...

9=√81

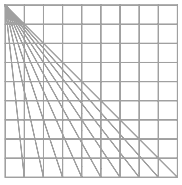
√(c×c−b×b) = a √((81+n^2)−n^2)

√(√82×√82 −1×1) = (√82×√82 −√1×√1) = 9 = √81 =√(82 −1) =√((81+1^2)−1^2) = 9.
√(√85×√85 −2×2) = (√85×√85 −√4×√4) = 9 = √81 =√(85 −4) =√((81+2^2)−2^2) = 9.
√(√90×√90 −3×3) = (√90×√90 −√9×√9) = 9 = √81 =√(90 −9) =√((81+3^2)−3^2) = 9.
√(√97×√97 −4×4) =√(√97×√97 −√16×√16) = 9 = √81 =√(27 −16) =√((81+4^2)−4^2) = 9.
√(√106×√106−5×5) = (√106×√106−√25×√25) = 9 = √81 =√(106−25) =√((81+5^2)−5^2) = 9.
√(√117×√117−6×6) = (√117×√117−√36×√36) = 9 = √81 =√(117−36) =√((81+6^2)−6^2) = 9.
√(√130×√130−7×7) = (√130×√130−√49×√49) = 9 = √81 =√(130−49) =√((81+7^2)−7^2) = 9.
√(√145×√145−8×8) = (√145×√145−√64×√64) = 9 = √81 =√(145−64) =√((81+8^2)−8^2) = 9.
√(√162×√162−9×9) = (√162×√162−√81×√81) = 9 = √81 =√(162−81) =√((81+9^2)−9^2) = 9.

9=√81

√(c×c−a×a) = b √(n^2)

√(√82×√82 −√81×√81) = 1 = √1 = √(82 −81) = √(1^2) = 1.
√(√85×√85 −√81×√81) = 2 = √4 = √(85 −81) = √(2^2) = 2.
√(√90×√90 −√81×√81) = 3 = √9 = √(90 −81) = √(3^2) = 3.
√(√97×√97 −√81×√81) = 4 = √16 = √(97 −81) = √(4^2) = 4.
√(√106×√106−√81×√81) = 5 = √25 = √(106−81) = √(5^2) = 5.
√(√117×√117−√81×√81) = 6 = √36 = √(117−81) = √(6^2) = 6.
√(√130×√130−√81×√81) = 7 = √49 = √(130−81) = √(7^2) = 7.
√(√145×√145−√81×√81) = 8 = √64 = √(145−81) = √(8^2) = 8.
√(√162×√162−√81×√81) = 9 = √81 = √(162−81) = √(9^2) = 9.



9=√81

√(a×a+b×b) = c √(n^2+81)

√(1×1+9×9) = (√1×√1 +√81×√81) = √82 = √(1+ 81) = √(1^2+81) ≈ 9.055385...
√(2×2+9×9) = (√4×√4 +√81×√81) = √85 = √(4+ 81) = √(2^2+81) ≈ 9.219544...
√(3×3+9×9) = (√9×√9 +√81×√81) = √90 = √(9+ 81) = √(3^2+81) ≈ 9.486832...
√(4×4+9×9) = (√16×√16+√81×√81) = √97 = √(16+81) = √(4^2+81) ≈ 9.848857...
√(5×5+9×9) = (√25×√25+√81×√81) = √106 = √(25+81) = √(5^2+81) ≈ 10.29563...
√(6×6+9×9) = (√36×√36+√81×√81) = √117 = √(36+81) = √(6^2+81) ≈ 10.81663...
√(7×7+9×9) = (√49×√49+√81×√81) = √130 = √(49+81) = √(7^2+81) ≈ 11.401754...
√(8×8+9×9) = (√64×√64+√81×√81) = √145 = √(64+81) = √(8^2+81) ≈ 12.041594...
√(9×9+9×9) = (√81×√81+√81×√81) = √162 = √(81+81) = √(9^2+81) ≈ 12.727922...